ABSTRACT

The present invention provides a Ni-Pt alloy superior in workability containing Pt in a content of 0.1 to 20wt% and having a Vickers hardness of 40 to 90, and a target comprising the Ni-Pt alloy. The present invention also provides a manufacturing method of Ni-Pt alloy superior in workability comprising a step of subjecting a raw material Ni having a purity of 3N level to electrochemical dissolution, a step of neutralizing the electrolytically leached solution with ammonia, a step of removing impurities through filtration with activated carbon, a step of blowing carbon dioxide into the resultant solution to form nickel carbonate and exposing the resultant product to a reducing atmosphere to prepare high purity Ni powder, a step of leaching a raw material Pt having a purity of 3N level with acid, a step of subjecting the leached solution to electrolysis to prepare high purity electrodeposited Pt, and a step of dissolving the resultant high purity Ni powder and high purity electrodeposited Pt. The foregoing method enables the rolling of the Ni-Pt alloy ingot upon reducing the hardness thereof, which results in the stable and efficient manufacture of a rolled target.